BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Est Cost Rs. 800000.00

Name of Work: Repair & Maintenance of Pipelines & Borewells in Ward No.08 Kodigehalli

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	A) Rewinding								
1	Lifting of Submersible pump set as per Specification and direction **(P. 94 / I. 12.34.J) RWS SR (2019-20)**	Each	6				**6**	1295.00	**7770.00**
2	Transportation of pumping machineries **(P. 94 / I. 12.34.H) RWS SR (2019-20)**	Each	6				**6**	1085.00	**6510.00**
3	Labour charges (over hauling) **(P. 94 / I. 12.34.K) RWS SR (2019-20)**	Each	6				**6**	3060.00	**18360.00**
4	**A) Repairs to Motor:** Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months. **P No. 93 / I. No. 12.33) (RWS SR 2019-20)**								
	D. Rewinding of motor of 10.0 HP	Each	2				**2**	4760.00	**9520.00**
5	E. Rewinding of motor of 12.5 HP	Each	4				**4**	5320.00	**21280.00**
	B) Replacement of Motor Parts:								
6	Starter 5 HP (with one year Guarantee) **P No. 93 / I No. 12.33.2C RWS SR (2019-20)**	Each	6				**6**	5535.00	**33210.00**
7	Rotor (with one year Guarantee) **P No. 93 / I No. 12.33.3C RWS SR (2019-20)**	Each	6				**6**	5175.00	**31050.00**
8	Upper Flange **(P No. 93 / I No. 12.33.3D RWS SR (2019-20)**	Each	6				**6**	400.00	**2400.00**
9	Lower Flange **(P No. 93 / I No. 12.33.3E RWS SR (2019-20)**	Each	6				**6**	400.00	**2400.00**
10	Upper Housing **(P No. 93 / I No. 12.33.3F RWS SR (2019-20)**	Each	6				**6**	724.00	**4344.00**
11	Lower Housing **(P No. 93 / I No. 12.33.3G RWS SR (2019-20)**	Each	6				**6**	724.00	**4344.00**
12	**Carbon housing** Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad. **P. No. 94 / I No.12.34.A RWS SR (2019-20)**	Each	6				**6**	1137.00	**6822.00**
	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement.								
13	Oil Seal **P. No. 93 / I No.12.32.1C RWS SR (2019-20)**	Each	6				**6**	171.00	**1026.00**
14	Oil Seal Steel bush **P. No. 152 / I No.12.32.1D RWS SR (2019-20)**	Each	6				**6**	171.00	**1026.00**
15	Guide vane **P. No. 93 / I No.12.32.1E RWS SR (2019-20)**	Each	180				**180**	450.00	**81000.00**
16	Impeller Shell moulded with aluminium Bronze) **P. No. 93 / I No.12.32.1F RWS SR (2019-20)**	Each	180				**180**	682.00	**122760.00**
17	Discharge outlet (D.O) Bearing D.O Steel Bush **P. No. 93 / I No.12.32.1G RWS SR (2019-20)**	Each	6				**6**	640.00	**3840.00**
18	Steel bush (D.O steel bush) **P. No. 93 / I No.12.32.1I RWS SR (2019-20)**	Each	6				**6**	213.00	**1278.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
19	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P. No. 93 / I No.12.32.1K RWS SR (2019-20)**	Each	6				**6**	1281.00	**7686.00**
20	Non – return valve (NRV) assembly complete with rubber 'O' Ring **P. No. 93 / I No.12.32.1N RWS SR (2019-20)**	Each	6				**6**	315.00	**1890.00**
21	Cable Guard **P. No. 93 / I No.12.32.1O RWS SR (2019-20)**	Each	6				**6**	176.00	**1056.00**
22	Brass Filter **P. No. 93 / I No.12.32.1Q RWS SR (2019-20)**	Each	6				**6**	636.00	**3816.00**
23	Re-erection charges of pumping machineries including overhauling and pointing **P. No. 93 / I No.12.34.I RWS SR (2019-20)**	Each	6				**6**	1711.00	**10266.00**
	Other Parts								
24	Providing non-return valve 50 mm **Page No. XLVII, Sl No. 16, PWD SR 2018-19**	Nos	2				**2**	1800.00	**3600.00**
25	Providing Gate Valve 50 mm **Page No. XLVII, Sl No. 15, PWD SR 2018-19**	Nos	10				**10**	1800.00	**18000.00**
26	Submersible Cable 1x3x6.0 Sq.mm **(PWD SR 2018-19 Page No. XLVII Sl No. 8)**	M	1	150.00			**150.00**	144.00	**21600.00**
27	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws., **P No. 24 / I No. 5.6.6 KPWD Electrical SR 2019-20**	Each	3				**3**	292.00	**876.00**
28	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. **P. No. 41 / I No. 6.9.1 KPWD Electrical SR 2019-20**	Mtr							
	40mm dia GI pipe		3	4.00			**12.00**	335.00	**4020.00**
29	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. **P. No. 42 / I.No. 7.10.2 KPWD Electrical SR 2019-20**	No.							
	16Sqmm		5				**5**	270.00	**1350.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
30	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia. **(P No. 40, I No. 6.1) KPWD Electrical SR 2019-20**	No							
			3				**3**	2999.70	**8999.00**
31	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.**P No. 24 / I No. 5.7.2 KPWD Electrical SR 2019-20**	No.							
	32 Amps		18				**18**	174.00	**3132.00**
32	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. **6-32Amps TPN P No. 27 / I No.5.17.7 KPWD SR 2019-20**	No							
			4				**4**	1715.00	**6860.00**
33	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete **P.No. 30, I. No. 5.42.2 KPWD Electrical SR 2019-20**	Sq.Cm							
	16SWG		4x2	120.00	60.00		115200.00		
			4	360.00	25.00		36000.00		
							151200.00	0.35	**52920.00**
34	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strata by Manual Means . **Page No. 07 / Item No.2.22.1 / PRED SR 2019-20 Ordinary Soil**	Cum							
			1	615.00	0.60	0.60	221.40		
	Basic Rate	262.00					**221.40**	262.00	**58007.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
35	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.61 item No. 10.01.2 b PRED SR 2019-20.**	Rmtr							
	75 mm dia 6 KSC PVC pipe		1	615.00			615.00		
							615.00	207.00	**127305.00**
	Charges Basic Rate	207.00							
36	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including watering, consolidation in layers of 15 cm thick including disposing of the sunplus earth with a lead of 200 mtrs **Page No. 8 / Item No. 2.25 / PRED SR 2019-20**	Cum							
			Qty. Vide Item No. 35				**221.40**	103.00	**22804.00**
	Baisc Rate	103.00							
	Sub Total								**713127.00**
	GST @ 12%								**85575.00**
	Miscellaneous and Unforeseen Charges	L/S							**1298.00**
								Total	**800000.00**

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of RWS SR 2019-20, KPWD SR 2019-20.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. Rs. 8.00 Lakhs only
Head of A/c.
Div. Ref. No. 09/21-22 Date 24/8/21
AE EE(BTP)

TECHNICAL SANCTION
Accorded For Rs. Rs. 8.00 Lakhs only
Head of A/c.
Div. Ref. No. 17/21-22 Date 24/8/21
AE EE(BTP)